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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on**

Full text available: [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process understanding of the execution of the application. The visualization tool we use is Poet, an event driven. These diagrams are often very complex and do not provide the user with the desired overview of the occurrences of non-trivial communication ...

2 [System-level power optimization: techniques and tools](#)

Luca Benini, Giovanni de Micheli

April 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES),**

Full text available: [pdf\(385.22 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic layers. We consider the three major constituents of hardware that consume energy, namely computation methods of reducing their energy consumption. We also study models for analyzing the energy consumption design and compilation. This survey ...

3 [Level II technical support in a distributed computing environment](#)

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available: [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index term](#)

4 [Process migration](#)

September 2000 **ACM Computing Surveys (CSUR),** Volume 32 Issue 3

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Process migration is the act of transferring a process between two machines. It enables dynamic and data access locality. Despite these goals and ongoing research efforts, migration has not achieved distributed systems in general, and distributed operating systems in particular, process migration product development. As hi ...


Keywords: distributed operating systems, distributed systems, load distribution, process migrati

5 Special issue: Game-playing programs: theory and practice

M. A. Bramer

April 1972

ACM SIGART Bulletin, Issue 80

Full text available:  [pdf\(9.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#)


This collection of articles has been brought together to provide SIGART members with an overview playing programs. Papers on both theory and practice are included.

6 IS '97: model curriculum and guidelines for undergraduate degree programs in information s

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996

ACM SIGMIS Database , Guidelines for undergraduate degree programs on degree programs in information systems, Volume 28 Issue 1

Full text available:  [pdf\(7.24 MB\)](#)

Additional Information: [full citation](#), [citations](#)

7 A survey of commercial parallel processors

Edward Gehringer, Janne Abullarade, Michael H. Gulyn

September 1988

ACM SIGARCH Computer Architecture News, Volume 16 Issue 4

Full text available:  [pdf\(2.96 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index](#)

This paper compares eight commercial parallel processors along several dimensions. The processors are the Multimax, the Sequent Balance system, the Alliant FX series, and the ELXSI System 6400) and for the Intel iPSC/2, and the FPS T Series). The paper contrasts the computers from the standpoint of interprocessor communication. Also, the share ...

8 Real and apparent motion: one mechanism or two? (abstract only)

Marc Green, Michael von Grunau

January 1984

ACM SIGGRAPH Computer Graphics, Volume 18 Issue 1

Full text available:  [pdf\(3.92 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

Two direction selective adaptation experiments were conducted to investigate whether real and apparent motion. Previous studies with real motion have shown that adaptation to a grating drifting in one direction test gratings (the velocity aftereffect) and also selectively raises contrast threshold (direction-specific experiments in which observers adapt ...

9 Using formal specifications as test oracles for system-critical software

Jon Hagar, James M. Bieman

November 1996

ACM SIGAda Ada Letters, Volume XVI Issue 6

Full text available:  [pdf\(1.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index](#), [table of contents](#)


The process used to validate, verify, and test flight avionics control systems has produced software reliability require new automated tools to improve existing processes. We used the Anna (Annotator) to develop a Test Range Oracle Tool (TROT) to automate the testing of equation execution. Our previously manual analysis, ...

Keywords: Ada, annotated Ada, formal specifications, industrial software, process improvement, validation

10 Expert systems for configuration at Digital: XCON and beyond

Virginia E. Barker, Dennis E. O'Connor, Judith Bachant, Elliot Soloway

March 1989 **Communications of the ACM**, Volume 32 Issue 3

Full text available:  [pdf\(2.29 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [reference](#)

Members of Digital Equipment Corporation's team of expert system experts reflect and recount a core of configuration systems

11 Draft report of the Federal Internetworking Requirements Panel, and selected responses

Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2


Full text available:  [pdf\(4.15 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

12 The space shuttle primary computer system

Alfred Spector, David Gifford

September 1984 **Communications of the ACM**, Volume 27 Issue 9

Full text available:  [pdf\(5.34 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: PASS, avionics system, space shuttle

13 From MCC and CMM: technology transfers bright and dim

Bill Curtis

June 2000

Proceedings of the 22nd international conference on Software engineering

Full text available:  [pdf\(235.81 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes lessons learned during the author's five lives in technology transfer. The author has performed research on software metrics and structured programming, and transferred technology to ITT's Programming Technology Center where he was responsible for transferring software measurement and software operations. Some ...

Keywords: CMM, MCC, SEI, capability maturity, change management, design process, model, software process improvement, technology adoption, technology transfer

14 Software quality and process: Predictors of customer perceived software quality

Audris Mockus, Ping Zhang, Paul Luo Li

May 2005

Proceedings of the 27th international conference on Software engineering

Full text available:  [pdf\(107.20 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

Predicting software quality as perceived by a customer may allow an organization to adjust deployment, allocate the appropriate amount of maintenance resources, and to direct quality improvement efforts. Customer perceived quality may be affected not simply by the software content and the development process, but also by deployment issues, amount of usage, software ...

Keywords: metrics, modeling, quality

15 Pipeline Architecture

C. V. Ramamoorthy, H. F. Li

January 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 1

Full text available:  [pdf\(3.53 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Columns: Risks to the public in computers and related systems

Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1


Full text available:  [pdf\(3.24 MB\)](#)

Additional Information: [full citation](#)

17 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available:  [pdf\(8.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the ARPANet. The interest being shown in this area is reflected in the sixty papers received from all over the computer network.

18 Security as a new dimension in embedded system design: Security as a new dimension in embedded system design

Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan

June 2004 **Proceedings of the 41st annual conference on Design automation - Volume 1**

Full text available:  [pdf\(209.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)

The growing number of instances of breaches in information security in the last few years has created a new dimension in embedded systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and analyze data, present interesting security challenges. Security has been the subject of intensive research in the areas of hardware, software, and communication. In these efforts, *security is ...*

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digital security, security processing, security protocols, sensors, software attacks, tamper resistance, trust

19 DDD papers: Software factories: assembling applications with patterns, models, frameworks

Jack Greenfield, Keith Short

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming**

Full text available:  [pdf\(707.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)


The confluence of component based development, model driven development and software production on the concept of software factories. This approach promises greater gains in productivity and performance over the current paradigm of object orientation, which have not kept pace with innovation in platform development. This assembly more cost effective through ...

Keywords: design patterns, domain-specific languages, model-driven development, software factories

20 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  [pdf\(6.94 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [reference](#)




This paper describes a methodology for the development of WWW applications and a tool environment. The methodology and the development environment are based upon models and techniques already used in other engineering fields, adapted and blended in an original mix. The foundation of the proposal is the use of a notation for the specification of structure, navigation, and ...


Keywords: HTML, WWW, application, development, intranet, modeling

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Mobile Agents - Process migration technology and its implications

Mobile agents are agents that can physically travel across a network, and perform tasks on machines that provide agent hosting capability.

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Slowing Down the Process Migration, Page One

Slowing Down the **Process Migration**. A refocus on engineering. by Josh Walrath.
 This article is directly inspired by this article at EE Design written by ...

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 ... general-purpose **process migration** functionality with low overhead. ...

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[PDF] Process Migration in DEMOS/1VIP Michael L. Powell Barton P. Miller ...File Format: PDF/Adobe Acrobat - [View as HTML](#)

... **process migration** to be implemented efficiently and with. no changes to system services. ... As described here, **process migration** is the relocation ...

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... out as the bottleneck in **process migration**, dominating all ... This paper describes the **process migration** facility built for ...

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Process or task migration

... Is there any tools to debug some **process migration** mechanism ? One quite practical **process migration** mechanism is bproc: <http://www.clustermatic.org> and ...

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